SEQUENCE LISTING

<110> Frudakis, Tony N.
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Skeiky, Yasir A.W.

<120> COMPOSITIONS AND METHODS FOR THE THERAPY AND DIAGNOSIS OF BREAST CANCER

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<140> US

<141> 2000-06-08

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conntacnte ntnnnennnt centetntnn cetennennt enetnenent thteteeten
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atactgetet ttaatgeaeg agatgtttgt ntaattgeea teeagggeea neecetttee
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gcccctcaa attataacct ttccnaaaca aannggttcn aaggtggttt gnttccggtg
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                                                                       1080
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                                                                       1080
                                                                       1140
aaanagaang tttatttttc cttngaacca tcccaatana aancacccgc nggggaacgg
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ttctgacact gctcatgtct ccaggcatct atttgcactt taggaggtgt cgtgggagac
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tatgtggggg ggggnttttg natagaaagt ntttantcac anagtcacag ggacttttnt
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cttttggnna ctgagctaaa aagggctgnt tttcgggtgg gggcagatga aggctcacag
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teccecacce geactgaaac tteacettet aactgtetae etaaccaaat tetaceette
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180

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<400> 239	
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gtatttttt aaataacttt tttttggatt tttaaagtaa ccttattctg agaggtaaca	120
tggattacat acttctaagc cattaggaga ctctatgtta aaccaaaagg aaatgttact	180
agatetteat ttgateaata ggatgtgata ateateatet ttetgeteta atggaaaagt	240
actanaaaca tggaaccata atcttagatg aacaacgtta gaatttgcac taattctacg	300
gaatttcagt aattcggcaa atgtcgggca gtgacacaac atttcatgac ggggacgcat	360
ctaccaactt ctggcgataa gggccaccct tccctctgta cttacagtcc catttcatac	420
acagtetttg attaaatatt cacatttttt etetacetaa agaeetteaa gaeeagtaeg	480
ta	482
<210> 240	
<211> 519	
<212> DNA	
<213> Homo sapien	
<220> <221> misc feature	
<222> (1)(519)	
$\langle 222 \rangle$ (1)(313) $\langle 223 \rangle$ n = A,T,C or G	
(223) 11 - 11,170 01 0	
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tgtatcgacg tagtggtctc cccatgtgat agtctgaaat atagcctcat gggatgagag gctgtgcccc agcccgacac ccgtaaaggg tctgtgctga ggtggattag taaaagagga aagccttgca gttgagatag aggaagggca ctgtctcctg cctgcccctg ggaactgaat gtctcggtat aaaacccgat tgtacatttg ttcaattctg agataggaga aaaaccaccc	120 180 240
tgtatcgacg tagtggtctc cccatgtgat agtctgaaat atagcctcat gggatgagag gctgtgcccc agcccgacac ccgtaaaggg tctgtgctga ggtggattag taaaagagga aagccttgca gttgagatag aggaagggca ctgtctcctg cctgcccctg ggaactgaat gtctcggtat aaaacccgat tgtacatttg ttcaattctg agataggaga aaaaccaccc tatggcggga ggcgagacat gttggcagca atgctgcctt gttatgcttt actccacaga	120 180 240 300
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tgtatcgacg tagtggtctc cccatgtgat agtctgaaat atagcctcat gggatgagag gctgtgcccc agcccgacac ccgtaaaggg tctgtgctga ggtggattag taaaagagga aagccttgca gttgagatag aggaagggca ctgtctcctg cctgcccctg ggaactgaat gtctcggtat aaaacccgat tgtacatttg ttcaattctg agataggaga aaaaccaccc tatggcggga ggcgagacat gttggcagca atgctgcctt gttatgcttt actccacaga tgtttggcg gagggaaaca taaatctggc ctacgtgcac atccaggcat agtacctccc tttgaactta attatgacac agattccttt gctcacatgt ttttttgctg accttctcct	120 180 240 300 360 420
tgtatcgacg tagtggtctc cccatgtgat agtctgaaat atagcctcat gggatgagag gctgtgcccc agcccgacac ccgtaaaggg tctgtgctga ggtggattag taaaagagga aagccttgca gttgagatag aggaagggca ctgtctcctg cctgcccctg ggaactgaat gtctcggtat aaaacccgat tgtacatttg ttcaattctg agataggaga aaaaccaccc tatggcggga ggcgagacat gttggcagca atgctgcctt gttatgcttt actccacaga tgtttggcg gagggaaaca taaatctggc ctacgtgcac atccaggcat agtacctccc tttgaactta attatgacac agattccttt gctcacatgt ttttttgctg accttctcct tattatcacc ctgctctcct accgcattcc ttgtgctgag ataatgaaaa taatatcaat	120 180 240 300 360 420 480
tgtatcgacg tagtggtctc cccatgtgat agtctgaaat atagcctcat gggatgagag gctgtgcccc agcccgacac ccgtaaaggg tctgtgctga ggtggattag taaaagagga aagccttgca gttgagatag aggaagggca ctgtctcctg cctgcccctg ggaactgaat gtctcggtat aaaacccgat tgtacatttg ttcaattctg agataggaga aaaaccaccc tatggcggga ggcgagacat gttggcagca atgctgcctt gttatgcttt actccacaga tgtttggcg gagggaaaca taaatctggc ctacgtgcac atccaggcat agtacctccc tttgaactta attatgacac agattccttt gctcacatgt ttttttgctg accttctcct	120 180 240 300 360 420
tgtatcgacg tagtggtctc cccatgtgat agtctgaaat atagcctcat gggatgagag gctgtgcccc agcccgacac ccgtaaaggg tctgtgctga ggtggattag taaaagagga aagccttgca gttgagatag aggaagggca ctgtctcctg cctgcccctg ggaactgaat gtctcggtat aaaacccgat tgtacatttg ttcaattctg agataggaga aaaaccaccc tatggcgga ggcgagacat gttggcagca atgctgcctt gttatgcttt actccacaga tgtttggcg gagggaaaca taaatctggc ctacgtgcac atccaggcat agtacctccc tttgaactta attatgacac agattccttt gctcacatgt ttttttgctg accttctcct tattatcacc ctgctctct accgcattcc ttgtgctgag ataatgaaaa taatatcaat agaaccttga nggaactcgg agaccactac gtcgataca	120 180 240 300 360 420 480
tgtatcgacg tagtggtctc cccatgtgat agtctgaaat atagcctcat gggatgagag gctgtgcccc agcccgacac ccgtaaaggg tctgtgctga ggtggattag taaaagagga aagccttgca gttgagatag aggaagggca ctgtctcctg cctgccctg ggaactgaat gtctcggtat aaaacccgat tgtacatttg ttcaattctg agataggaga aaaaccaccc tatggcggga ggcgagacat gttggcagca atgctgcctt gttatgcttt actccacaga tgtttgggcg gagggaaaca taaatctggc ctacgtgcac atccaggcat agtacctccc tttgaactta attatgacac agattccttt gctcacatgt ttttttgctg accttctcct tattatcacc ctgctctcct accgcattcc ttgtgctgag ataatgaaaa taaatacaat agaacacttga nggaactcgg agaccactac gtcgataca <210> 241	120 180 240 300 360 420 480
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<213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(771)
      <223> n = A, T, C \text{ or } G
      <400> 241
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actgtcacgg ctcccgggta gaagtcactt atgagacaca ccagtgtggc cttgttggct
                                                                        120
tgaageteet cagaggaggg tgggaacaga gtgacegagg gggcageett gggetgaeet
                                                                        180
aggacggtca gettggtece tecgecaaac aegagagtge tgetgettgt atatgagetg
                                                                        240
cagtaataat cagcctcgtc ctcagcctgg agcccagaga tggtcaggga ggccgtgttg
                                                                        300
                                                                        360
ccanacttgg agccagagaa gcgattagaa acccctgagg gccgattacc gacctcataa
atcatgaatt tgggggcttt gcctgggtgc tgttggtacc angagacatt attataacca
                                                                        420
                                                                        480
ccaacgtcac tgctggttcc antgcaggga aaatggttga tcnaactgtc caagaaaacc
actacgtcca taccaatcca ctaattgccn gccgcctgca ggttcaacca tattggggaa
                                                                        540
                                                                        600
naactccccn ccgccgtttg ggattgncat naacctttga aattttttcc tattanttgt
                                                                        660
ccccctaaaa taaaccnttg ggcnttaatc cattgggtcc atancttntt tncccggttt
ttaaaanttg tttatcccgc cncccnattt ccccccaac tttccaaaac ccgaaaccnt
                                                                        720
                                                                        771
tnaaatttnt tnaaaccctg gggggttccc nnaattnnan ttnaanctnc c
     <210> 242
      <211> 167
      <212> DNA
      <213> Homo sapien
      <400> 242
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                                                                        120
tcctctctag gaacctctgg attttcaaat tctttgagga attcatccaa attatctgcc
tctcctcctt tcctcctttt tctaaggtct tctggtacaa gcggtca
                                                                        167
      <210> 243
      <211> 338
      <212> DNA
      <213> Homo sapien
      <400> 243
                                                                         60
ttgggcacct tcaatatcta ctgatctaaa tagtgtggtt tgaggcctct tgttcctggc
taaaaatcct tggcaagagt caatctccac tttacaatag aggtaaaaat cttacaatgg
                                                                        120
                                                                        180
atattcttga caaagctagc atagagacag caattttaca caaggtattt ttcacctgtt
taataacagt ggttttccta cacccatagg gtgccaccaa gggaggagtg cacagttgca
                                                                        240
gaaacaaatt aagatactga agacaacact acttaccatt tcccgtatag ctaaccacca
                                                                        300
                                                                        338
gttcaactgt acatgtatgt tcttatgggc aatcaaga
      <210> 244
      <211> 346
      <212> DNA
      <213> Homo sapien
      <400> 244
```

tttttggctc ccatacagca cactctcatg ggaaatgtct gttct tgcaaaaatc atcaatatac ttgaagatcc ccgtgtaagg tacaa	aaggt caacccataa 60 tgtat ttaatattat 120
cactgataca attgatccaa taccagtttt agtctggcat tgaat	caaat cactgttttt 180
cactgataca allgatecaa taccagtett ageetggeat egaat	tgtaa gaaaaaagat 240
gttgtataaa aagagaaata tttagcttat atttaagtac catat	gaata ttactgtaaa 300
gcttatcttt acatgctaaa atcatgatct gtacattggt gcagt	gaata ttactgtaaa 300
agggaagaag gaatgaagac gagctaagga tattgaaggt gccca	a 346
<210> 245	
<211> 521	
<212> DNA	
<213> Homo sapien	
(213) Homo Sapten	
222	
<220>	
<221> misc_feature	
<222> (1) (521)	
<223> n = A, T, C or G	
<400> 245	
accaatccca cacggatact gagggacaag tatatcatcc cattt	catco ctacagoago 60
aacttcatga ggcaggagtt attagtccca ttttacagaa gagga	laactg agacttaggg 120
agatcaagta atttgcccag gtcgcacaat tagtgataga gccag	ggett gaagegaegt 180
ctgtcttaag ccaatgaccc ctgcagatta ttagagcaac tgttc	tccac aacagtgtaa 240
gcctcttgct anaagctcag gtccacaagg gcagagattt ttgtc	tgttt tgctcattgc 300
teetteeca ttgettagag cagggtetge cacgaancag gttet	caatg catagttatt 360
aaatgtatat aagagcaaac atatgttaca gagaactttc tgtat	gettg teacttacat 420
gaatcacctg tganatgggt atgettgtte eccantgttg cagat	naaga tattgaangt 480
gaatcacctg tganatgggt atgettgtte eccantgetg tagat	521
gcccaaatca ctanttgcgg gcgcctgcan gtccancata t	
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<211> 482	
<212> DNA	
<213> Homo sapien	
000	
<220>	
<221> misc_feature	
<222> (1)(482)	
<223> n = A,T,C or G	
<400> 246	eatttg gcacatgttc 60
tggaaccaat ccaaataccc atcaatgata gactggataa agaac	acces jenensjere
accatgaaat actatgcagc cataaaaaag gatgagttca tatco	300030 4333333
atgaagctgg agaccatcat tctcagcaaa ctaacaaggg aacag	gaaaac caaacactgc 180
atgttctcac tcttaagtgg gagctgaaca atgagaacac atgg	acacag ggaggggaac 240
atcacacagt ggggcctgct ggtgggtagg ggtctagggg aggg	atagca ttaggagaaa 300
tacctaatgt agatgacggg ttgatgggtg cagcaaacca ccatg	gacacg tgtataccta 360
tgtaacaaac ctgcatgttc tgcacatgta ccccagaact taaaq	gtgtta ataaaaaaat 420
taagaaaaaa gttaagtatg tcatagatac ataaaatatt gtan	atattg aaggtgccca 480
	482
aa	

<210> 247 <211> 474

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<212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(474)
      <223> n = A,T,C or G
      <400> 247
ttcgatacag gcacagagta agcagaaaaa tggctgtggt ttaaccaagt gagtacagtt
                                                                        60
                                                                       120
aagtgagaga ggggcagaga agacaagggc atatgcaggg ggtgattata acaggtggtt
                                                                       180
gtgctgggaa gtgagggtac tcggggatga ggaacagtga aaaagtggca aaaagtggta
                                                                       240
agatcagtga attgtacttc tccagaattt gatttctggn ggagtcaaat aactatccag
                                                                       300
tttggggtat catanggcaa cagttgaggt ataggaggta gaagtcncag tgggataatt
                                                                       360
gaggttatga anggtttggt actgactggt actgacaang tctgggttat gaccatggga
                                                                       420
atgaatgact gtanaagcgt anaggatgaa actattccac ganaaagggg tccnaaaact
                                                                       474
aaaaannnaa gnnnnngggg aatattattt atgtggatat tgaangtgcc caaa
      <210> 248
      <211> 355
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(355)
      <223> n = A, T, C or G
      <400> 248
ttcgatacag gcaaacatga actgcaggag ggtggtgacg atcatgatgt tgccgatggt
                                                                        60.
ccggatggnc acgaagacgc actggancac gtgcttacgt ccttttgctc tgttgatggc
                                                                        120
cctgagggga cgcaggaccc ttatgaccct cagaatcttc acaacgggag atggcactgg
                                                                        180
attgantccc antgacacca gagacacccc aaccaccagn atatcantat attgatgtag
                                                                        240
                                                                        300
ttcctgtaga nggccccctt gtggaggaaa gctccatnag ttggtcatct tcaacaggat
                                                                        355
ctcaacagtt tccgatggct gtgatgggca tagtcatant taaccntgtn tcgaa
      <210> 249
      <211> 434
      <212> DNA
      <213> Homo sapien
      <400> 249
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                                                                        60
aggateteca ggageaaaag gggatggggg aatteetggt eetgetggte eettaggtee
                                                                        120
                                                                        180
acctggtcct ccaggettac caggtcctca aggeccaaag ggtaacaaag getetactgg
                                                                        240
accegetgge cagaaaggtg acagtggtet tecagggeet cetgggeete caggtecace
                                                                        300
tggtgaagtc attcagcctt taccaatctt gtcctccaaa aaaacgagaa gacatactga
aggcatgcaa gcagatgcag atgataatat tettgattae teggatggaa tggaagaaat
                                                                        360
atttggttcc ctcaattccc tgaaacaaga catcgagcat atgaaatttc caatgggtac
                                                                        420
                                                                        434
tcagaccaat ccaa
```

<210> 250			
<211> 430			
<212> DNA			
<213> Homo sapien			
<220>			
<221> misc_feature			
<222> (1) (430)			
<223> n = A, T, C or G			
<400> 250	agaggagat	acaatootto	60
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ggagageggt ggtgegatet tggetetetg caaceceege			180
tagcetegeg ggtagatgga attacaggeg cecacegeca			240
gtcttcagta gagacagggt ttcgccatgt tgggcaggct			300
nagtgatetg ceeteetegg ceteacaaag tgetggaatt			360
ccagtcaact tctcactagt tatggcctta tcattttcac			420
aaaaaaaaan		-35	430
<210> 251			
<211> 329			
<212> DNA			
<213> Homo sapien			
<400> 251			
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ggagtctgtg ccgaggtgca gctgrtgcag tctggagcag			120
tetetgaaga teteetgtaa gggttetgga tacacettta			180
gtgcgccagt tgcccgggaa aggcctggag tggatggggc	tcatctttcc	tgatgactct	240
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agcaccgcct atctgcagtg gagtaccaa			343
<210> 252			
<211> 536			
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•			
<400> 252			
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tatgtagatc ctgtactggc ctaagaagtt aaactgagaa			180
ttaatggtcg ttgagacttg tgtcctggag cagctgggat			240
agaggaagaa ctgcctggaa gggggcatca tgttaaaaat			300
ggcccccttc ccagctctca gcctagagta ttagcatttc			360
teettgetta gaatgtgeea eeggggggag teeetgtggg			420
agagtggcat cctatcttct gtgtgcccac aggagcctgg			480
gtttctggtc caggctttgc ccttgactca ctatgtgacc	tctggtggag	taccaa	536
210. 253			
<210> 253			
<211> 507			

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<212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
      <222> (1)...(507)
      \langle 223 \rangle n = A,T,C or G
      <400> 253
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                                                                        60
                                                                       120
tgaggccgca gtgagccggg accacgccac tacactccag cctggggcat agagtgagac
                                                                       180
cctccaagac agaaaagaaa agaaaggaaa ggaaaagggaa agggaaaagg aaaaggaaaa
ggaaaaggaa aaggaaaaga caagacaaaa caagacttga atttggatct cctgacttca
                                                                       240
attttatgtt ctttctacac cacaattcct ctgcttacta agatgataat ttagaaaccc
                                                                       300
                                                                       360
ctcgttccat tctttacagc aagctggaag tttggtcaag taattacaat aatagtaaca
aatttgaata ttatatgcca ggtgtttttc attcctgctc tcacttaatt ctcaccactc
                                                                       420
tgatataaat acaattgctg ccgggtgtgg tggctcatgc ctgtaatccc ggcactttgg
                                                                       480
                                                                       507
gagaccgagg tgggcggats gcaacaa
      <210> 254
      <211> 222
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(222)
      \langle 223 \rangle n = A,T,C or G
      <400> 254
                                                                        60
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actggccaca ctttctcctg ccgccttcct caaagctgaa gacacacaga gcaaggcgct
                                                                       120
                                                                       180
totgttttac tocccaatgg taactccaaa ccatagatgg ttagctnccc tgctcatctt
                                                                       222
tccacatccc tgctattcag tatagtccgt ggaccaatcc aa
      <210> 255
      <211> 463
      <212> DNA
      <213> Homo sapien
      <400> 255
                                                                        60
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gggagggagc acattaaggt ggccatgaag tttgttggaa gaagtgactt ttgaacaagg
                                                                       120
ccttggtgtt aagagctgat gagagtgtcc cagacagagg ggccactggt acaatagacg
                                                                       180
                                                                       240
agatgggaga gggcttggaa ggtgtgcgaa ataggaagga gtttgttctg gtatgagtct
                                                                       300
agtgaacaca gaggcgagag gccctggtgg gtgcagctgg agagttatgc agaataacat
                                                                       360
taggccctgt gggggactgt agactgtcag caataatcca cagtttggat tttattctaa
gagtgatggg aagccgtgga aagggggtta agcaaggagt gaaattatca gatttacagt
                                                                       420
                                                                       463
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<210> 259 <211> 291

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                                                                        60
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gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt
gaccgcttgt gaccgcttgt nacngggggt gtctggggga ctatgannga ntgtnactgg
                                                                       180
                                                                       240
gggtgtctgg gggnctatga nngantgtna cngggggtgt ctgggggact atganngact
gtgcnncctg ggggatcnga ggagantngn ggntagngat ggttngggan a
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tttgaggtca gggatgaaaa ctagaatttt tttctttttt tttgcctgag aaacttgctg
                                                                       120
ctctgaagag gcccatgtat taattgcttt gatcttcctt ttcttacagc cctttcaagg
                                                                       180
gcagagccct ccttatcctg aaggaatctt atccttagct atagtatgta ccctctta
                                                                       238
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                                                                       120
tgttctaagc ctttaaacgt actaattcat ttaatgctca taatcacttt agaaggtggg
tactagtatt agtctcattt acagatgcaa catgcaggca cagagaggtt aattaacttg
                                                                       180
cccaaggtaa cacagctaag aaatagaaaa aatattgaat ctggaaagtt gggcttctgg
                                                                       240
                                                                       300
gtaacccaca gagtetteaa tgageetggg geeteactea gtttgetttt acaaagegaa
tgagtaacat cacttaattc agtgagtagg ccaaatggag gtcagctacg agtttctgct
                                                                       360
                                                                       420
gttcttgcag tggactgaca gatgtttaca acgtctggcc atcagtwaat ggactgatta
tcattgggaw gtgggtgggc tgaatgttgg ccagtgaagt ttattcawgc catattttta
                                                                       480
tgtttaggat gacttttggc tggtcctagg gcaagctctg tctgscacgg aacacagaat
                                                                       540
                                                                       600
wacacaggga ccccctcaat ttctggtgtg gctagaacca tgaaccactg gttgggggaa
                                                                       660
caageggtea aaacetaagt geggeegget ggeagggtee aeceatatgg ggaaaaetee
                                                                       720
cnacgcgttt ggaatgcctn agctngaatt attctaanag ttgtccncnt aaaattagcc
                                                                       746
tgggcgttaa tcangggtcn naagcc
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<212> DNA

<213> Homo sapien

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                                                                         60
tttgtctgtt tcttctttct cttttccttc ccatatcctc ctaatttacg tttgacttgt
                                                                        120
ttgctgagga ggcaggagct agagactgct gtgagctcat aggggtggga agtttatcct
                                                                        180
tcaagtcccg cccactcatc actgcttctc accttcccct gaccaggctt acaagtgggt
                                                                        240
tcttgcctgc tttccctttg gacccaacaa gcccctgtaa tgagtgtgca tgactctgac
                                                                        300
agctgtggac tcagggtcct tggctacagc tgccatgtaa aatatctcat ccagttctcg
                                                                        360
caaattgtta aaataaccac atttcttaga ttccagtacc caaatcatgt ctttacgaac
                                                                        420
                                                                        480
tgctcctcac acccagaagt ggcacaataa ttcttgggga attattactt tttttttct
ctctnttnnc gnnngnnnng gnnngnccag gaattaccac nttggaagac ctggccngaa
                                                                        540
                                                                        588
tttattatan aggggagccg attntttttc ctaacacaaa gcgggtca
      <210> 263
      <211> 730
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc feature
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      \langle 223 \rangle n = A,T,C or G
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agactgcaaa aagattaaat gtaaaagttg tettgtatae agtaatgttt aagataeeta
                                                                        120
ttanatttat aaatggaaaa ttagggcatt tggatataca agttgaaaat tcaggagtga
                                                                        180
ggttgggctg gctgggtata tactgaaaac tgtcagtaca cagatgacat ctaaaaccac
                                                                        240
aaatctggtt ttattttagc agtgatatgt gtcactccca caaaagcctt cccaattggc
                                                                        300
                                                                        360
ctcagcatac acaacaagtc acctccccac agccctctac acataaacaa attccttagt
ttagttcagg aggaaatgcg cccttttcct tccgctctag gtgaccgcaa ggcccagttc
                                                                        420
tcgtcaccaa gatgttaagg gaagtctgcc aaagaggcat ctgaaaggaa ataaggggaa
                                                                         480
tgggagtgac cacaaaggaa agccaaggan aaactttgga gaccgtttct aganccctgg
                                                                         540
catttcacaa caaaactcng gaacaaacct tgtctcatca atcatttaag cccttcgttt
                                                                         600
                                                                         660
ggannagact ttctgaactg ggcgctgaac ataancetca ttgaatgtet tcacagtete
ccagctgaag gcacaccttg ggccagaagg ggaatcttcc aggtcctcaa nacagggctc
                                                                         720
                                                                         730
gccctttgnc
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      <211> 715
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tacacttaat qtqqttataq atqctqttga gcttacttct accaccttgc tatttctccc
                                                                       120
gtctcttttt tgttcctttt ctcttctttt cctcccttat tttataattg aattttttag
                                                                       180
                                                                       240
gattctattt tatatagatt tatcagctat aacactttgt attcttttgt tttgtggttc
ttctgtcatt tcaatgtgca tcttaaactc atcacaatct attttcaaat aatatcatat
                                                                       300
aaccttacat ataatgtaag aatctaccac catatatttc catttctccc ttccatccta
                                                                       360
tgtntgtcat atttttcct ttatatatgt tttaaagaca taatagtata tgggaggttt
                                                                       420
ttgcttaaaa tgtgatcaat attccttcaa ngaaacgtaa aaattcaaaa taaatntctg
                                                                       480
tttattctca aatnnaccta atatttccta ccatntctna tacntttcaa gaatctgaag
                                                                       540
gcattggttt tttccggctt aagaacctcc tctaaagcac tctaagcaga attaagtctt
                                                                       600
                                                                       660
ctqqqaqaqq aattctccca agcttgggcc ttnanntgta ctccntnang gttaaanttt
ggccgggaaa tagaaattcc aagttaacag gntanttttt nttttnttn tcncc
                                                                       715
      <210> 265
      <211> 152
      <212> DNA
      <213> Homo sapien
      <400> 265
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tgattcccat gaagaggtta tgatttctaa agaaaacatg gctactatac tatcaatcag
                                                                       120
                                                                       152
ggttaaatct tttttttttg agacggagtt ta
      <210> 266
      <211> 193
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(193)
      <223> n = A, T, C or G
      <400> 266
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                                                                        60
aagggactgt ttccgtaact gttgtgggta ttcacgacca ggcttctaaa cctcttaaaa
                                                                       120
ctccccaatt ctggtgccaa cttggacaac atgcttttt tttttttt tttttttn
                                                                       180
                                                                       193
gagacggagt tta
      <210> 267
      <211> 460
      <212> DNA
      <213> Homo sapien
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<pre></pre>	60 120 180 240 300 360 420 460
<220> <221> misc_feature <222> (1)(533) <223> n = A,T,C or G	
tgttgegate egttgataga atagegaegt ggtaatgagt geatggeaeg eeteegaett acettegeee gtggggaeee egagtaegte taeeggegteg teaettagag taeeetetgg aegeeeggge gegttegatt taeeggaage gegagetgea gtgggettge geeeeeggee aaattetttg gggggtttaa ggeegegggg aatttgaggt atetetatea gtatgtagee aagttggaae agtegeeatt eeegaaateg ettetttga ateegeaeeg eeteeate teeataaeta gegegetega eetegtete gtaeggeea ggteegtge tgegaattee eaaeteeggt gagttgegea ttteaagttn egaaaetgtt egeeteeaen atttggeatg teeaegaatg eaaeteegat aeaetggaat aeetegteea gtaeeggaa tgggategea aea	60 120 180 240 300 360 420 480 533
<210> 269 <211> 50 <212> DNA <213> Homo sapien	
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taatgggctc caccagttcc agggcaggga tgacattctt ggaggccact ttggcgggga	420
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gaacagcaca atggcaagac cattttcgcc tactttacgg gttctaagga cgccgggggg	180
aaaagctggt gccccgactg cgtgcaggct gaaccagtcg tacgagaggg gctgaagcac	240
attagtgaag gatgtgttt catctactgc caagtaggag aagagcctta ttggaaagat	300
ccaaataatg acttcagaaa aaacttgaaa gtaacagcag tgcctacact acttaagtat	360
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(213) Nome Sapich	
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cgcaggggaa atgcaactgg ccaggtcaca gggcaatcaa ga	102
<210> 273	
<211> 455	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)(455)	
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ggcaatcaac aggtttaagt cttcggccga agttaatctc gtgtttttgg caatcaacag	180
gtttaagtet teggeegaag ttaatetegt gtttttggea ateaacaggt ttaagtette	240
ggccgaagtt aatctcgtgt ttttggcaat caacaggttt aagtcttcgg ccgaagttaa tctcgtgttt ttggcaatca acaggtttaa gtcttcggcc gaagttaatc tcgtgttttt	300
ggcaatcaag aggtttaagt cttcggccga agttaatctc gtgttttttgg caatcaacag	360
gtttaagtet teggeegaan ttaatetegt gtttttggea ateaacaggt ttaantette	420
ggccgaagtt aatctcgtgt ttttggcaat caana	455
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<211> 461	
<212> DNA	

<213> Homo sapien

(213) Hollo Sapre	11				
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tccctgggat gcaaggctgg	ttcaacataa	gaaaaccaac	tagagaaaa	gasttagasa	240
acagaaccaa agacaaaaac	cacatgatta	teteaataga	cycayaaaay	geeteggaea	300
aattcaacag cccttcatgc	taaacactct	gagaggaat	atactagina	ataggaaaa	360
caaaataata agagctattt	atgacaaacc	cacagecaat	tagastatat	caccactact	420
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attcaacata gtattggaag	ttetggeeag	ggcaaccaag	a		101
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<220>					
<221> misc featu	re				
<222> (1)(729					
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ctccccaaac cccaccttca	cagcctcttc	cacacgtctc	ccanagattg	ttgtccttca	180
cttgcaaatt canggatgtt					240
ncantaagca gaantacgat					300
ccctttctnt cgtgttanga					360
atttgggaga actcccccn	cgttggatcc	ccccttgagt	ntcccattct	ngteececan	420
accongnettg ngngneantn	cnncctcnca	centgtttee	ctgnngtnaa	aatnngtttt	480 540
neegeeneee naatteeeae	ccnaatcaca	gcgaanceng	aaggccttcn	naagtgttta	
angecengng gttteetent					600
tegegeeetg gnenegeetn					660
nnnctnttcc tnnnactagc	tngcctntcc	ncnccgnggn	ncanngcaca	ttnenennae	720 729
tntgtnncc					123
<210> 276					
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tacagagaaa aatagaaaag	tacaaattgt	tgtcagtgtt	ttgaaggaaa	attatgatct	120
ttcccaaagt tctgacttca	ttctaagaca	gggttagtat	ctccatacat	aattttactt	180
gcttttgaaa atcaaatgag	ataatctatt	tagattgata	atttatttag	actggctata	240
aactattaag tgctagcaaa	tatacatttt	aatctcattt	tccacctctt	gtgatatagc	300

339

tatgtaggtg ttgactttaa tggatgtcag gtcaatccc

<211> 664

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<212> DNA
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                                                                         60
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aagcatccaa aggaaacaaa tgatggtaag accgtgccaa gtggggagca gacaccaaag
                                                                        120
                                                                        180
taagaccaca gattttacat tcaacaggta gctcacagta ctttgcccga cactgtgggc
agaaatagcc tcctaatgta agccctggct cagtattgcc atccaaatgc gccatgctga
                                                                        240
aagagggttt tgcatcctgg tcagatnaag aagcaatggt gtgctgagga aatcccatac
                                                                        300
gaataagtga gcattcagaa cttgagctag caggaggagg actaagatga tgtgtgagca
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                                                                        420
actetttgta atggetttea tetaaaataa eatggtaegt geeaceagtt teaegageaa
gtacagtgca aacgcgaact tctgcagaca atccaataac agatactcta attttagctg
                                                                        480
                                                                        540
cctttagggt cttgattaaa tcataaatat tagatggatc gcaagttgta aggntgctaa
aagatgatta gtacttctcg acttgtatgt ccaggcatgt tgttttaaan tctgccttag
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                                                                        660
nccctgctta ggggaatttt taaagaagat ggctctccat gttcanggtc aatcacnaat
                                                                        664
      <210> 278
      <211> 452
      <212> DNA
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      <220>
      <221> misc_feature
      <222> (1)...(452)
      <223> n = A, T, C or G
      <400> 278
                                                                         60
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                                                                        120
gacacagagt gggcctctga taattcatga aatgcattct gaagtcatcc agaatggagg
                                                                        180
ctgcaatctg ctgtgctttg ggggttgcct cactgtgctc ctggatatca cacaaaagct
gcaatcette ttetteaact aacattttge agtatttget gggattttta etgeagaeat
                                                                        240
                                                                        300
gatacatagc ccatagtgcc cagagctgaa cctctggttg agagaagttg ccaaggagcg
ggaaaaatgt cttgaaagat ctataggtca ccaatgctgt catcttacaa cttgaacttg
                                                                        360
                                                                        420
gccaattctg tatggttgca tgcagatctt ggagaagagt acgcctctgg aagtcacggg
                                                                        452
atatccaaan ctgtctgtca gatgtcaggt ca
      <210> 279
      <211> 274
      <212> DNA
      <213> Homo sapien
      <400> 279
                                                                         60
ttttttttt ttcggcaagg caaatttact tctgcaaaag ggtgctgctt gcacttttgg
ccactgcgag agcacaccaa acaaagtagg gaaggggttt ttatccctaa cgcggttatt
                                                                        120
```

ccctggttct gtgtcgtgtc cccattggct ggagtcagac tgcacaatct acactgaccc aactggctac tgtttaaaat tgaatatgaa taattaggta ggaaggggga ggctgtttgt tacggtacaa gacgtgtttg ggcatgtcag gtca	180 240 274
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gttgaatgga aaaggtgagt ttcagaagga tatatatgcc ctctaaatcc atttatgtaa	180
acctttaaaa aactacatta tttatggtca taagtccatc cagaaaatat ttaaaaaacct	240
acatgggatt gataactact gatgtcaggt ca	272
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<211> 431	
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- <222> (1)(431)	
$\langle 223 \rangle$ n = A,T,C or G	
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tagcattaat cagaaaatat tgcatagcct ctagcctcct tagagtaggt gtgctctctc	180
aaatatatca tagtcccaca gtttatttca tgtatatttt ctgcctgaat cacatagaca	240
tttgaatttg caacgcctga tgtaaatata taaattctta ccaatcagaa acatagcaag	300 360
aaattcaggg acttggtcat yatcagggta tgacagcana tccctgtara aacactgata cacactcaca cacgtatgca acgtggagat gtcgcyttww kkktwywcwm rmrycrwcgn	420
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(213) Homo Bapton	
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<211> 764	
<212> DNA	
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.220-	
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<213> Homo sapien

<400> 296

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<210> 298

<211> 1059

<212> DNA

<213> Homo sapien

<400> 298

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<211> 329

<212> PRT

<213> Homo sapien

<400> 299

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Val 145	Asn	Lys	Arg	Asp	Lys 150	Gln	Lys	Arg	Thr	Ala 155	Leu	His	Leu	Ala	Ser 160
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Val	Gln	Cys 195	Gln	Glu	Asp	Glu	Cys 200	Ala	Leu	Met	Leu	Leu 205	Glu	His	Gly
Thr	Asp 210	Pro	Asn	Ile	Pro	Asp 215	Glu	Tyr	Gly	Asn	Thr 220	Thr	Leu	His	Tyr
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Glu 305	Gln	Asn	Val	Asp	Val 310	Ser	Ser	Gln	Asp	Leu 315	Glu	Arg	Arg	Pro	Glu 320
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<210> 300

<211> 148

<212> PRT

<213> Homo sapien

<220>

<221> VARIANT

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<400> 300

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Gln	Lys 50	Arg	Thr	Ala	Leu	His 55	Leu	Ala	Ser	Ala	Asn 60	Gly	Asn	Ser	Glu
Val 65	Val	Lys	Leu	Xaa	Leu 70	Asp	Arg	Arg	Cys	Gln 75	Leu	Asn	Val	Leu	Asp 80
Asn	Lys	Lys	Arg	Thr 85	Ala	Leu	Xaa	Lys	Ala 90	Val	Gln	Cys	Gln	Glu 95	Asp
Glu	Cys	Ala	Leu 100	Met	Leu	Leu	Glu	His 105	Gly	Thr	Asp	Pro	Asn 110	Ile	Pro
Asp	Glu	Tyr 115	Gly	Asn	Thr	Thr	Leu 120	His	Tyr	Ala	Xaa	Tyr 125	Asn	Glu	Asp
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<210> 302

<211> 2000

<212> DNA

<213> Homo sapien

<400> 302

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		aaataaggat				1260
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<400> 304

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Leu	Arg	Asp	Thr	Asp 165	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr 175	Ala
Leu	His	Leu	Ala 180	Ser	Ala	Asn	Gly	Asn 185	Ser	Glu	Val	Val	Lys 190	Leu	Leu
Leu	Asp	Arg 195	Arg	Cys	Gln	Leu	Asn 200	Val	Leu	Asp	Asn	Lys 205	Lys	Arg	Thr
Ala	Leu 210	Ile	Lys	Ala	Val	Gln 215	Cys	Gln	Glu	Asp	Glu 220	Cys	Ala	Leu	Met
Leu 225	Leu	Glu	His	Gly	Thr 230	Asp	Pro	Asn	Ile	Pro 235	Asp	Glu	Tyr	Gly	Asn 240
	Thr			245			-		250	_	_			255	
Ala	Leu	Leu	Leu 260	Tyr	Gly	Ala	Asp	Ile 265	Glu	Ser	Lys	Asn	Lys 270	His	Gly
Leu	Thr	Pro 275	Leu	Leu	Leu	Gly	Val 280	His	Glu	Gln	Lys	Gln 285	Gln	Val	Val
Lys	Phe 290	Leu	Ile	Lys	Lys	Lys 295	Ala	Asn	Leu	Asn	Ala 300	Leu	Asp	Arg	Tyr
Gly 305	Arg	Thr	Ala	Leu	Ile 310	Leu	Ala	Val	Cys	Cys 315	Gly	Ser	Ala	Ser	Ile 320
Val	Ser	Leu	Leu	Leu 325	Glu	Gln	Asn	Ile	Asp 330	Val	Ser	Ser	Gln	Asp 335	Leu
Ser	Gly	Gln	Thr 340	Ala	Arg	Glu	Tyr	Ala 345	Val	Ser	Ser	His	His 350	His	Val
Ile	Cys	Gln 355	Leu	Leu	Ser	Asp	Tyr 360	Lys	Glu	Lys	Gln	Met 365	Leu	Lys	Ile
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Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His 135 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met 155 150 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala 170 165 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu 185 180 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr 200 Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met 215 220 Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn 235 230 Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys 250 245 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly 265 260 Leu Thr Pro Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val 285 280 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr 295 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile 315 310 Val Ser Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu 330 325 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His Wal 345 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile 360 Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu 380 375 Glu Glu Ser Gln Arg Phe Lys Gly Ser Glu Asn Ser Gln Pro Glu Lys 395 390 Met Ser Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Val Glu 410 405 Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly Leu Leu Glu Asn 425 Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn Gly Leu Ile Pro 440 Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe Pro Asp Asn Glu 455 Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser Asp Tyr Lys Glu 475 470 Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp 490 Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Leu Glu Gly Ser Glu 505 500 Asn Gly Gln Pro Glu Leu Glu Asn Phe Met Ala Ile Glu Glu Met Lys 520 Lys His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly

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Arg	Thr	Pro	Glu	Ser	Gln	Gln	Phe	${\tt Pro}$	Asp	Thr	Glu	Asn	Glu	Glu	Tyr
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His	Ser	Asp	Glu	Gln	Asn	Asp	Thr	Gln	Lys	Gln	Phe	Cys	Glu	Glu	Gln
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Ile	Glu	Val	Val	Glu	Lys	Met	Asn	Ser	Glu	Leu	Ser	Leu	Ser	Cys	Lys
	610				_	615					620				
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225					230					235					240
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Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val
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Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu
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Ser	Glv	Gln	Thr		Arg	Glu	Tvr	Ala	Val	Ser	Ser	His	His	His	Val
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Tlo	Cvc	Gln		T.e.11	Ser	Asp	Tvr		Glu	Lvs	Gln	Met	Leu	Lys	Ile
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Cox	602		λen	Ser	Asn	Pro		Gln	Asp	Leu	Lvs	Leu	Thr	Ser	Glu
Ser	370	Giu	Mali	Der	Abii	375	Qu	01			380				
a 1	210	Cor	Gl n	λνα	Phe		Glv	Ser	Glu	Asn	-	Gln	Pro	Glu	Lys
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Mec	ser	GIII	GIU	405	Giu	110	11011		410	1		- 5		415	
C1.,	Cl.	Mot	Lare		His	Glu	Ser	Asn		Val	Glv	Leu	Leu	Glu	Asn
GIU	Giu	Mec	420	Буз	1113	OIU	501	425			1		430		
T	mb se	7 ~~		17-1	Thr	λla	Glv		Glv	Asn	Asn	Glv		Ile	Pro
ьeu	TILL	435	GIY	vai	1111	AIG	440	11011	0-1			445			
G2	7		602	71 20	Thr	Dro		Δen	Gln	Gln	Phe		Asp	Asn	Glu
GTII	450	пуъ	Ser	Arg	1111	455	OI u	11011	0		460		-		
0		~1.,	Фт 220	uic	Arg		Cve	Glu	T.eu	Val		Asp	Tvr	Lvs	Glu
	Gru	Gru	ıyı	1113	470	110	Cyb	010		475			•	•	480
465	C1 n	Mot	Dro	Lvc	Tyr	Ser	Ser	Glu	Asn		Asn	Pro	Glu	Gln	Asp
ьуѕ	GIII	Mec	PIO	485		Jer	JCI	OLU	490					495	-
T	T	T 0	mb se		Glu	Glu	Glu	Ser			Leu	Glu	Glv		Glu
Leu	ьys	Leu		Ser	GIU	GIU	GIU	505		1119	1100	0_0	510		
7	~ 3	~1 ~	500	C1.,	Lys	Λrα	Sar			Pro	Glu	Tle	_	Lvs	Asp
ASII	GIY			Gru	ьур	ALG	520	0111	Oru		010	525		-1	
~ 3	•	515	a1	T 0.11	Glu	7 02		Mat	Δla	Tle	Glu		Met	Lvs	Lvs
GIY			GIU	ьeu	GIU	535		Mec	лта	110	540	014		_1_	-1-
'	530			1114 0	Val			Dro	Glu	Δen		Thr	Asn	Glv	Ala
		Ser	Thr	HIS			FIIC	FIU	GIU	555				U -1	560
545 		~ 3	_	~1 -	550		a1	T 011	Tlo			λνα	Lvc	Ser	
Thr	Ala	GLY	ASI		Asp	Asp	GIY	Leu	570		FIO	A. 9	шуы	575	
	_	~1	a	565		Dho	Dwo	7 02			λen	Glu	Glu		His
Thr	Pro	GIU			Gln	Pne	PIO			GIU	ASII	Gru	590	- y -	
			580		_		~1	585		Dho	C++0	C1.,			Δen
Ser	Asp			Asn	Asp	Thr			Gin	Pne	Cys	GIU	GIU	GIII	ASII
		595			_	~-	600		- 7	. TT-2	α1	605		ري س اي	Tla
Thr			Leu	His	Asp			ьeu	тте	nlS	GIU	GIU	- гув	GIII	116
	610			_		615		~7			620		· ~	L	Larg
		Val	Glu	Lys	Met		ser	GIU	Leu			ser	cys	ьys	
625					630)				635					640

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100

Asn Thr Leu Cys Lys Ala

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Val Lys Thr I	Leu Gly Ser	Lys Arg 40	Cys Lys T	Orp Cys Cys 45	His Cys	Phe					
Pro Cys Cys <i>I</i> 50	Arg Gly Ser	Gly Lys 55	Ser Asn V	/al Val Ala 60	Trp Gly	Asp					
Tyr Asp Asp 5	Ser Ala Phe 70	Met Asp	Pro Arg T	Tyr His Val 75	His Gly	Glu 80					
Asp Leu Asp I	Lys Leu His 85	Arg Ala	Ala Trp T 90	Trp Gly Lys	Val Pro . 95	Arg					
Lys Asp Leu	Ile Val Met 100	Leu Arg	Asp Thr A	Asp Val Asn	Lys Arg 110	Asp					
Lys Gln Lys A	Arg Thr Ala	Leu His 120	Leu Ala S	Ser Ala Asr 125		Ser					
Glu Val Val 1 130	Lys Leu Val	Leu Asp 135	Arg Arg (Cys Gln Leu 140	Asn Val	Leu					
Asp Asn Lys 1	Lys Arg Thr 150			Ala Val Glr 155	Cys Gln	Glu 160					
Asp Glu Cys	Ala Leu Met 165	Leu Leu	Glu His (Gly Thr Asp	Pro Asn 175	Ile					
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225
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Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys
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Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln Asn Val Asp
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Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala 35 40 45

Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val 50 55 60

Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr 65 70 75 80

Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr 85 90 95

Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser 100 105 110

Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr 115 120 125

Leu Ala Glu Gly Pro Pro Ala Glu Phe Pro Leu Val Pro Arg Gly Ser 130 135 140

Pro Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys
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Lys Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys 165 170 175

Phe Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly
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Trp Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn

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116

485 490 495

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Lys